



SIZE APERTURE SUITABLE FOR **TENAX 3D GRID T** MEDIUM - SMALL AGGREGATE **US PROVISIONAL PATENT APPLICATION N. 62/804,274 ITALIAN UTILITY MODEL APPLICATION N. 202019000000495** VERTICAL EDGE WITH «T» PROFILE FOR BETTER LATERAL CONFINEMENT 20 kips, 1200 passes, aggregate subbase CBR 20 UNREINFORCED 3D GRID T Subgrade CBR [%] Subgrade consistency Soft «T» BEAM SHAPE GUARANTEES: Medium HIGH TRANSVERSAL STIFFNESS, 20 kips, 1200 passes, aggregate subbase CBR 20 Stiff **EXCELLENT APERTURE STABILITY** (> 1.00 N mm/deg) UNREINFORCED TENAX 3D GRID T is a significant improvement over ribs allows a better distribution of the load on soft

3D GRID T

Subgrade CBR [%]

traditional flat or planar base reinforcement geogrid

thanks to a special «T» beam profile. The geogrid can

develop a much higher transversal lateral confinement,

while the wide base of both longitudinal and transversal

subgrades. The result is a unique product specifically

base layer.

designed to reduce rut depth and thickness of aggregate

TENAX 3D GRID XL

US PATENT N. US8,206,060 B2

EUROPEAN PATENT N.2236668

CHINA PATENT N. ZL201010157334,1

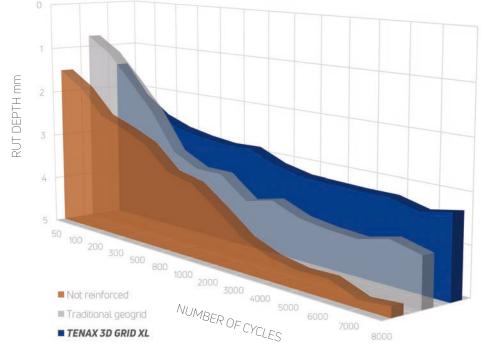
ITALIAN PATENT N. 1393817

RUSSIAN PATENT N. 2520597



3D GRID XL behavior was tested in collaboration with the Transport Science Department of the University of Tennessee.

TRAPEZOIDAL CROSS SECTION: WIDE BASE, HIGH RIBS, EXCELLENT APERTURE STABILITY (> 1.00 N mm/deg)





-17%

COMPARED TO TRADITIONAL GEOGRID:

-31% MPARED TO

COMPARED TO NOT REINFORCED SOIL

Wheel loads on a road are distributed along a channelized geometry (longitudinal direction) and can be analyzed considering plain strain conditions. The state of stress is directed mostly in vertical and transversal lateral direction. TENAX 3D GRID XL has been tested in cooperation with the Transport Science Department of the University of Tennessee: an extensive campaign was carried out using the APA (Asphalt Pavement Analyzer), a specific apparatus to assess the performance of road pavements.

The test confirmed that TENAX 3D GRID XL has a better performance compared to the traditional flat or planar geogrids.



